

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4099	
10/038,784	8,784 12/31/2001		Xiaolin Lu	TI-33671		
23494	7590	02/07/2006		EXAMINER		
		ENTS INCORPOR	TSE, YOUNG TOI			
P O BOX 65 DALLAS, 7	•			ART UNIT	PAPER NUMBER	
				2637		
				DATE MAILED: 02/07/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		T		$-\omega$			
		Application No.	Applicant(s)	V			
		10/038,784	LU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		YOUNG T. TSE	2637				
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet v	with the correspondence addres	s			
WHI(- Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO a, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communated the communated state of this communated the communated state of this communated state of this communated state of this communated state of this community state of				
Status							
1)🖂	Responsive to communication(s) filed on 22 N	lovember 2005.					
2a)⊠	This action is FINAL . 2b) This	s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 34-38 is/are pending in the applicatio	n.					
	4a) Of the above claim(s) is/are withdra	wn from consideration.					
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 34-38 is/are rejected.						
•	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	ion Papers						
9)[🛛	The specification is objected to by the Examine	er.					
10)⊠	The drawing(s) filed on 31 December 2001 is/a	are: a)⊠ accepted or b)[\square objected to by the Examiner	•			
	Applicant may not request that any objection to the	drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	tion is required if the drawin	g(s) is objected to. See 37 CFR 1.	121(d).			
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attach	ed Office Action or form PTO-1	52.			
Priority (under 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:		§ 119(a)-(d) or (f).				
	1. Certified copies of the priority document						
	2. Certified copies of the priority document		· ·				
	3. Copies of the certified copies of the prio	-	n received in this National Stag	je			
* (application from the International Burea See the attached detailed Office action for a list		nt received				
`	see the allached detailed Office action for a list	of the contined copies he	rreserved.				
Attachmen	ıt(s)						
1) Notice	e of References Cited (PTO-892)		Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		o(s)/Mail Date Informal Patent Application (PTO-152)			
	r No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·	,			

Art Unit: 2637

In claim 34:

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: page 9, line
 "it window" should be "its window". Appropriate correction is required.

Claim Objections

2. Claims 34-38 are objected to because of the following informalities:

Line 4, "receiver packet" should be "receive packet".

Lines 6, 8 and 16, "buffer" should be "buffer window".

Line 7, "a higher" should be "an upper".

Lines 10, 12, 13, 14, 15 and 18, "of packets" should be "of data packets".

Line 12, "packets;" should be "packets; and".

Line 13, "the transmitter" should be "the transmitter in the receive packet buffer window".

In claim 35, line 2, "of packets in the receive packet buffer with update" should be "of data packets in the receive packet buffer window with the updated".

In claim 36, line 2, "of packets corresponds" should be "of data packets correspond" and line 3, "a upper limit respectively of the transmit packet buffer" should be "an upper limit respectively of the transmit packet buffer window".

In claim 37:

Line 2, "receiver packet" should be "receive packet".

Line 3, "buffer window" should be "buffer window of a receiver".

Lines 4 and 6, "buffer" should be "buffer window".

Line 5, "a higher" should be "an upper".

Lines 8, 10, 13 (both occurrences) and 14, "of packets" should be "of data packets".

Line 9, "the receiver" should be "the receiver in the first plurality of data packets".

Line 10, "the transmitter;" should be "the transmitter in the receive packet buffer window; and".

In claim 38, line 2, "of packets in the receive packet buffer with update" should be "of data packets in the receive packet buffer window with the updated".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 34-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Chintada et al. (US 6,697,983 B1) or "Chintada".

With respect to claims 34-38, Chintada discloses a method or apparatus for recovering lost frames transmitted between a packet sending unit and a packet receiving unit in a data communications system including the steps of: (a) identifying a failure to successfully receive a missed frame at the packet receiving unit; (b) establishing a logical tunnel channel at the packet receiving unit to acknowledge the next successfully received frame; (c) starting a first timer at the packet receiving unit; (d) upon receiving a tunnel establishment request from the packet receiving unit, the packet sending unit resending the missed frame on the logical tunnel channel and starting a second timer; and (e) the packet sending unit resending the missed frame a specified number of times until receiving an acknowledgement from the pack receiving unit. See the abstract, column 2, lines 51-67 and column 3, lines 1-32.

Chintada also teaches that with the sliding window protocol, at any instant in time a transmitter maintains a list of consecutive sequence numbers corresponding to frames it is permitted to send. These frames fall within a "sending window." In the same manner, a receiver maintains a "receiving window" corresponding to the frames it is permitted to accept. The sending and receiving windows do not necessarily have the same upper and lower limits, or the same size. The sequence numbers within the sender's window represent frames sent but not yet acknowledged. Whenever a new data packet arrives from the network layer, it is given the next highest sequence number, and the upper edge of the window is advanced by one. When an acknowledge

Art Unit: 2637

is received, the lower edge of the window is advanced by one. The window continuously maintains a list of unacknowledged frames. Since frames currently within the sender's window may be lost or changed during transmission, the sender must keep all the sent frames in memory in the event a retransmission is required. See column 4, lines 31-55.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chintada et al. (US 6,765,870 B2) discloses a data link layer and a medium access control layer connected to each other by data and control paths. The data link layer is adapted to pass new data frames from a higher layer relative to the data link layer into the data link layer queue and to suspend a retransmission timer upon a congestion message received from the medium access control layer, the congestion message being responsive to a level of stored frames in the medium access control queue.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Thursday and alternative Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The Central FAX Number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 7

YOUNG T. TSE

Art Unit 2637